CHEMISTRY: SECONDARY EDUCATION BA/BS

The Teacher Education program prepares candidates for certification in grades K-12. The Secondary Education program requires 27 credits of Education course work in professional foundations and studies and 13 credits during internship. Students apply for admission to the program after successfully completing nine credits of Education course work in professional foundations. During the course of the studies, candidates may be asked to reapply to the program if their GPA falls below 3.0.

Teaching endorsement areas are attached to a Standard Instructional Certificate (grades K-12), according to Idaho Teacher Certification standards. All endorsements require a minimum of 45 semester credits, with the exception of dual endorsements where 30 semester for a major endorsement and 20 semester credits for a minor endorsement is required. The following LC State areas are approved for teaching field majors: Biology, Chemistry, Communication Arts, Earth Science, English; Kinesiology-Physical Education K-12 and Health 6-12; Mathematics; Natural Sciences; Psychology; and Social Science with a History emphasis (see degree requirements for each major). Teacher candidates must successfully pass the related Praxis II exam in their teaching content area(s).

For marketability purposes, students are encouraged to pursue endorsements and minors in a second teaching field; consult with an advisor for the proper procedure. Secondary Education majors must have a content area advisor and a Secondary Education advisor.

Graduates from other colleges or universities seeking secondary teacher certification must fulfill all Secondary Education professional course work requirements in addition to meeting all academic major or minor teaching field requirements for subject area endorsement.

Students in the Teacher Education Certification program are expected to provide evidence through performance that they have met Idaho's requirements for certification and become dedicated and knowledgeable professionals, content specialists, competent educational designers, capable educational facilitators, insightful educational evaluators, reflective professionals, and culturally responsive professionals before being recommended for teacher certification.

Advising

Secondary Teacher Education candidates must have two advisors; one for their academic major and one for teacher certification.

General Education Requirements

ociiciai Laucatio	in requirements	
Code	Title	Credits
Written Communication		
Select one of the following:		6.00
ENGL-101	WRITING AND RHETORIC I	
& ENGL-102	and WRITING AND RHETORIC II	
ENGL-109	COLLEGE WRITING AND RESEARCH	
Oral Communication		
Select one from the following	j:	3.00
COMM-101	FUNDAMENTALS OF ORAL COMMUNICATION	
COMM-203	SMALL GROUP COMMUNICATION	
COMM-204	PUBLIC SPEAKING	
Mathematical Ways of Knowi	ing	
Select one of the following:		3.00-5.00
MATH-143	COLLEGE ALGEBRA	
MATH-147	COLLEGE ALGEBRA AND TRIGONOMETRY	
MATH-170	CALCULUS I	
Humanistic & Artistic Ways o	of Knowing	
Select one course from two o	categories:	6.00-8.00
Literature		
ENGL-175	LITERATURE AND IDEAS	
ENGL-257	WORLD CLASSICS	
ENGL-258	INTERNATIONAL LITERATURE	
ENGL-260	NATIVE AMERICAN LITERATURE	
ENGL-261	MYTHOLOGIES	
Arts		
ART-100	INTRODUCTION TO ART	
HUM-101	THE ART AND HISTORY OF THE MOTION PICTURE	

4.00

3.00

3.00

4.00-5.00

Select one of the following:		3.00-4.00
ANTH-102	CULTURAL ANTHROPOLOGY	
ANTH-120	WORLD PREHISTORY	
ANTH-170	INTRODUCTION TO NATIVE AMERICAN STUDIES	
ANTH-360	RACE AND ETHNICITY	
COMM-345	INTERCULTURAL COMMUNICATION	
ENGL-258	INTERNATIONAL LITERATURE	
ENGL-474	NATIVE AMERICAN WRITTEN LITERATURE	
GEOG-102	INTRODUCTION TO GEOGRAPHY	
HIST-101	WORLD HISTORY I	
HIST-102	WORLD HISTORY II	
HIST-111	UNITED STATES HISTORY I	

46.00-47.00

Total Credits		38.00-44.00
Select 16 credits of lar	nguage if selecting Bachelor of Arts Degree	16.00
Foreign/Heritage Lang	guage	
ID-301A	HELLS CANYON INSTITUTE	
ID 300A - 300Z (see	e course descriptions for options)	
Select one of the follow	wing:	3.00
Integrative Seminar: E	thics & Values	
SS-184	DIVERSITY IN ORGANIZATIONS	
SPAN-202	INTERMEDIATE SPANISH II	
SPAN-201	INTERMEDIATE SPANISH I	
SPAN-102	ELEMENTARY SPANISH II	
SPAN-101	ELEMENTARY SPANISH I	
SOC-101	INTRODUCTION TO SOCIOLOGY	
POLS-285	COMPARATIVE GOVERNMENT	
NP-102	NEZ PERCE LANGUAGE AND HISTORY	
NP-101	NEZ PERCE LANGUAGE AND CULTURE	
KIN-220	SOCIAL-CULTURAL ASPECTS OF SPORTS	
ID-300C	ETHICS AND IDENTITY	
HRPT-184	DIVERSITY IN ORGANIZATIONS	
HIST-112	UNITED STATES HISTORY II	

Program Requirements

Total Credits

Secondary certification candidates must meet the graduation requirements for their major and the Secondary Teacher Education Program and must have two advisors. (see below)

Code	Title	Credits
Chemistry Program		
CHEM-112	PRINCIPLES OF CHEMISTRY II	4.00
CHEM-300	PHYSICAL CHEMISTRY I WITH LABORATORY	4.00
CHEM-306	PHYSICAL CHEMISTRY II	3.00
CHEM-325	QUANTITATIVE ANALYSIS	3.00
CHEM-325L	QUANTITATIVE ANALYSIS LABORATORY	2.00
CHEM-371	ORGANIC CHEMISTRY I	3.00
CHEM-372	ORGANIC CHEMISTRY II	3.00
CHEM-373	ORGANIC CHEMISTRY I LAB	1.00
CHEM-376	ORGANIC CHEMISTRY II LAB	2.00
CHEM-454	INSTRUMENTAL ANALYSIS	5.00
CHEM-463	INORGANIC CHEMISTRY	4.00
CHEM-481	BIOCHEMISTRY I	4.00
MATH-170	CALCULUS I (Required if not taken as core)	
MATH-175	CALCULUS II	4.00
PHYS-112	GENERAL PHYSICS II	4.00-5.00
or PHYS-212	PHYSICS FOR SCIENTISTS AND ENGINEERS II	
Secondary Education Certificate		
See Secondary Education Co	ertificate Requirements below	

See Catalog section "Teacher Education Division: Secondary Teacher Certification" regarding certification requirements for this major. Selective course choices could be affected.

Secondary Education Certificate Requirements

Application for admission to the Teacher Education Program is required after successful completion of the first three Phase I courses.

Code	Title	Credits
Phase I - Professional Foundations of Education		
ED-214	PRINCIPLES OF EDUCATION ¹	3.00
ED-225	TECHNOLOGIES FOR TEACHING, K-12	3.00
ED-318	ASSESSMENT OF LEARNING ¹	3.00
ED-321	EDUCATIONAL PSYCHOLOGY ¹	3.00
ED-345	CULTURALLY RELEVANT TEACHING	3.00
SE-322	INCLUSION STRATEGIES K-12 (may be taken in Phase I or Phase II)	3.00
Phase II - Professional Stud	ies in Education	
ED-445	INSTRUCTIONAL STRATEGIES AND CLASSROOM MANAGEMENT, 6-12	3.00
ED-447	TEACHING METHODS IN THE CONTENT AREA	2.00
RE-309	DISCIPLINARY LITERACY	3.00
Phase III - Instructional Methods in Education		
ED-452	INTERNSHIP SEMINAR	1.00
ED-460	PROFESSIONAL INTERNSHIP IN EDUCATION 6-12	12.00
Total Credits		39.00

Additional requirements must be met for teacher certification. See your Teacher Education Division advisor for details.

No grade lower than a "C-" will be accepted in any General Education core, Content Major, or 200-level Professional Foundations course. No grade lower than a "B-" will be accepted in any 300- or 400-level courses for Secondary Education.

A minimum cumulative GPA of 3.0 is required for admission into the Secondary Teacher Education Program. Candidates must also maintain a 3.0 cumulative GPA in their content area classes.

Sequential Plan of Study

Course	Title	Credits
First Year		
Fall		
ENGL-101	WRITING AND RHETORIC I	3.00
CORE	Oral Communication	3.00
CHEM-111	PRINCIPLES OF CHEMISTRY I	4.00
CORE	MATH-143, MATH-147 or MATH-170	3.00-5.00
	Credits	13.00-15.00
Spring		
ENGL-102	WRITING AND RHETORIC II	3.00
CORE	Humanistic & Artistic Ways of Knowing	3.00
PSYC-205	LIFESPAN DEVELOPMENTAL PSYCHOLOGY	3.00
CHEM-112	PRINCIPLES OF CHEMISTRY II	4.00
	Credits	13.00
Second Year		
Fall		
CHEM-300	PHYSICAL CHEMISTRY I WITH LABORATORY	4.00
CORE	Diversity	3.00
CORE	Humanistic & Artistic Ways of Knowing	3.00
PHYS-111 or PHYS-211	GENERAL PHYSICS I or PHYSICS FOR SCIENTISTS AND ENGINEERS I	4.00-5.00
MATH-175	CALCULUS II	4.00
	Credits	18.00-19.00
Spring		
CORE	Integrative Seminar. Ethics & Values	3.00
CORE	Social & Behavioral Ways of Knowing	3.00

	Total Credits	82.00-86.00
	Credits	9.00
CHEM-481	BIOCHEMISTRY I	4.00
CHEM-376	ORGANIC CHEMISTRY II LAB	2.00
CHEM-372	ORGANIC CHEMISTRY II	3.00
Spring		
	Credits	13.00
CHEM-463	INORGANIC CHEMISTRY	4.00
CHEM-454	INSTRUMENTAL ANALYSIS	5.00
CHEM-373	ORGANIC CHEMISTRY I LAB	1.00
CHEM-371	ORGANIC CHEMISTRY I	3.00
Fall		
Third Year		
	Credits	16.00-17.00
CHEM-325	QUANTITATIVE ANALYSIS	3.00
CHEM-306	PHYSICAL CHEMISTRY II	3.00
or PHYS-212	or PHYSICS FOR SCIENTISTS AND ENGINEERS II	
PHYS-112	GENERAL PHYSICS II	4.00-5.00

Secondary Education Certificate Requirements

	Total Credits	13.00 39.00
ED-460	PROFESSIONAL INTERNSHIP IN EDUCATION 6-12	12.00
ED-452	INTERNSHIP SEMINAR	1.00
Fall	INTERNOLID OFMINAR	1.00
Second Year		
	Credits	11.00
SE-322	INCLUSION STRATEGIES K-12	3.00
RE-309	DISCIPLINARY LITERACY	3.00
ED-447	TEACHING METHODS IN THE CONTENT AREA	2.00
ED-445	INSTRUCTIONAL STRATEGIES AND CLASSROOM MANAGEMENT, 6-12	3.00
Spring		
	Credits	15.00
ED-345	CULTURALLY RELEVANT TEACHING	3.00
ED-321	EDUCATIONAL PSYCHOLOGY	3.00
ED-318	ASSESSMENT OF LEARNING	3.00
ED-225	TECHNOLOGIES FOR TEACHING, K-12	3.00
ED-214	PRINCIPLES OF EDUCATION	3.00
Fall		
First Year		
Course	- Title	Credits

Graduates with a BA/BS Chemistry: Secondary Education go on to obtain careers in a variety of fields:

- Secondary Chemistry Teacher (6-12)
- Adult and Continuing Education
- Research
- · Lab Technician
- Training Specialist
- · Business and Industry
- · Instructional Coach